Fig. 1

Fig. 2

MeO 
$$\downarrow$$
 MeO  $\downarrow$  MeO

$$14 \text{ R} = \text{Me}$$
  $15 \text{ R} = \text{Me}$   $16 \text{ R} = (\text{CH}_2)_3 \text{SO}_3$   $\bigcirc$   $17 \text{ R} = (\text{CH}_2)_3 \text{SO}_3$ 

Fig. 3

Fig. 4

Fig. 5

## Fig. 7

OTf 
$$NH_2$$
OCH<sub>3</sub>
OCH<sub>3</sub>
 $NH_2$ 
OCH<sub>3</sub>
 $OCH_3$ 
 $OCH_3$ 

FIG. 9

## FIG. 13

FIG. 16

FIG. 17a

FIG. 17b

FIG. 18

FIG. 19

$$CO_2CH_3$$
 $HO_3S$ 
 $OCH_3$ 
 $CHO$ 
 $OCH_3$ 
 $CHO$ 
 $OCH_3$ 
 $CHO$ 
 $OCH_3$ 
 $CHO$ 
 $OCH_3$ 

$$CO_2CH_3$$
 $CH_3O_2C$ 
 $HO_3S$ 
 $CH_0O_2C$ 
 $OCH_3$ 
 $CHO$ 
 $OCH_3$ 
 $OCH$ 

FIG. 20

$$R^{12}-L^{12}-N \longrightarrow OCH_3 \qquad CH_3O \longrightarrow N-L^2-R^2 \qquad R^{12}-L^{12}-N \longrightarrow OCH_3 \qquad CH_3O \longrightarrow N-L^2-R^2 \qquad Closs \qquad Cl$$

FIG. 21

FIG. 22a

--- CH2CH2CH2SO3

$$\begin{bmatrix} R^{12} - L^{12} \\ -0_3 S C H_2 C H_2 C H_2 - C H_2 - C C_2 H & 114 \end{bmatrix}$$

$$\begin{bmatrix} -1^2 - R^2 \\ -0_3 S C H_2 C H_2 C H_2 - C C_2 H & 114 \end{bmatrix}$$

$$\begin{bmatrix} -1^2 - R^2 \\ -1 - R^2 \end{bmatrix}$$

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$$\begin{bmatrix} -$$

$$\begin{bmatrix} R^{12}-L^{12} \\ +O_2C - CH_2 - CH_2 - CH_2 - CO_2H \end{bmatrix}$$

$$-L^{12}-R^2$$

$$-CH_2C - CH_2 - CH_2 - CH_2 - CO_2H \end{bmatrix}$$

$$+O_3CCH_2CH_2CH_2 - CH_2 - CH_2CH_2CH_2SO_3 \end{bmatrix}$$

$$+O_3C - CH_2 - CH_2CH_2CH_2SO_3 \end{bmatrix}$$

$$+O_3C - CH_2 - CH_2CH_2CH_2SO_3 \end{bmatrix}$$

$$+O_3C - CH_2 - CH_2CH_2CH_2SO_3 \end{bmatrix}$$

FIG. 22c